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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 08/05/2003 AD6606 US DIV 2 7028 10/634,400 Mark Stephen Edwards EXAMINER 23906 7590 10/26/2005 E I DU PONT DE NEMOURS AND COMPANY AFTERGUT, JEFF H LEGAL PATENT RECORDS CENTER ART UNIT PAPER NUMBER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE 1733 WILMINGTON, DE 19805

DATE MAILED: 10/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N	lo.	Applicant(s)	
Office Action Summary		10/634,400		EDWARDS ET AL.	
		Examiner		Art Unit	
		Jeff H. Aftergu		1733	
Period fo	The MAILING DATE of this communication Reply	on appears on the co	ver sheet with the c	orrespondence add	ress
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F CHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 ( SIX (6) MONTHS from the mailing date of this communicat openiod for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no event, h ion. period will apply and will exp statute, cause the application	COMMUNICATION nowever, may a reply be timorize SIX (6) MONTHS from to become ABANDONEI	N. sely filed the mailing date of this con D (35 U.S.C. § 133).	
Status					
1)[]	Responsive to communication(s) filed on				
/	•	This action is non-	final.		
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims	•			
4)⊠	☑ Claim(s) <u>1-5</u> is/are pending in the application.				
• —	4a) Of the above claim(s) <u>3-5</u> is/are withdrawn from consideration.				
	Claim(s) is/are allowed.				
· <u> </u>	Claim(s) <u>1 and 2</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction	and/or election requ	irement.		
Applicati	ion Papers				
9)□	The specification is objected to by the Exa	aminer			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	under 35 U.S.C. § 119		•		
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) 🔲 Notic 3) 🔀 Inform	t(s)  be of References Cited (PTO-892)  be of Draftsperson's Patent Drawing Review (PTO-94  mation Disclosure Statement(s) (PTO-1449 or PTO/5  or No(s)/Mail Date	SB/08) 5)	Interview Summary Paper No(s)/Mail Da Notice of Informal P	ite	152)

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## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention: The species of the bristle subassembly formed with a base string attached to a filament wrap thereto (claims 1 and 2), the species of a bristle subassembly with the filament wrap attached to itself without the addition of additional material or solvent (heat welded, claim 3), the species of the bristle subassembly made with the addition of a melted polymeric bead to attach the wrap filaments together (claim 4), and the species of the bristle subassembly wherein an adhesive or solvent was applied to the filament wrap to adhere the filaments together (claim 5).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. During a telephone conversation with Tamera Fair on 10-21-05 a provisional election was made without traverse to prosecute the invention of the species of the attachment of a base string to a filament wrap, claims 1 and 2. Affirmation of this election must be made by applicant in replying to this Office action. Claims 3-5 have been withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over either one of Edwards et al or Mokhtar et al.

The claims are written in product by process form. As such, the claims are directed to the bristle subassembly and nothing more. If the processing results in a materially different end product, which applicant could evidence with a showing, then the specific processing would have been understood to have resulted in a materially different end product and prima facie obviousness must be based upon the specific processing to show that the specific product was known. However, no such specific evidence of the same exists in this application.

The references to Edwards et al and Mokhtar both suggested that it was known at the time the invention was made to attach a base string to a wrap of filaments on a mandrel or form wherein the same were joined together with an ultrasonic horn. Note that in Mokhtar, the base string is identified as 32 and the horn for the ultrasonic is identified as 42. The system included a means for cutting the looped material after the bonding operation in order to form a base string with a plurality of filaments attached thereto. This is essentially the same product recited in the claims. It is unclear whether the inclusion of multiple sides for the mandrel or the use of multiple base strings further imparts anything materially different to the finished assembly. The reference to Edwards is much the same as the assembly of Mokhtar in that it included the use of a string 32 as well as an ultrasonic means 42 to attach the string to the exterior of the wraps which were disposed about the form. The reference again clearly suggested that the wrap would have been severed after assembly and thus one would have been left with a

plurality of polymeric filaments attached to a base string in the same manner as defined in the claims. Additionally both references suggested that the yarn which made up the wrappings were polymeric yarn. The references both suggested that the assemblies so formed were used in the manufacture of carpets as tufted products, however there is no reason to believe that these products could not be employed as a bristle subassembly (note that the tuft strings produced in the references were carpet subassemblies). As there is no specific structure defined in the claims which made the assemblies anything different from that which was defined by either one of Mokhtar or Edwards, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the techniques of either one of Edwards et al or Mokhtar et al to make a bristle subassembly which had a base string attached to a plurality of polymeric filaments via an ultrasonic bonding operation.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff H. Aftergut whose telephone number is 571-272-1212. The examiner can normally be reached on Monday-Friday 7:15-345 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

arv Examiner

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JHA

October 24, 2005